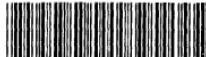


#3



ENTERED

PCT10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/049,742

DATE: 03/01/2002
TIME: 14:53:09

Input Set : A:\ippf0728usn.app.txt
Output Set: N:\CRF3\03012002\J049742.raw

5 <110> APPLICANT: INCYTE GENOMICS, INC.
6 YUE, Henry
7 BANDMAN, Olga
8 TANG, Y. Tom
9 BAUGHN, Mariah R.
10 AZIMZAI, Yalda
11 LU, Dyung Aina M.
13 <120> TITLE OF INVENTION: HUMAN CHAPERONE PROTEINS
15 <130> FILE REFERENCE: PF-0728 PCT
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/049,742
C--> 18 <141> CURRENT FILING DATE: 2002-01-26
20 <150> PRIOR APPLICATION NUMBER: 60/146,908; 60/160,924
W--> 21 <151> PRIOR FILING DATE: 1999-08-03; 1999-10-22
23 <160> NUMBER OF SEQ ID NOS: 22
24 <170> SOFTWARE: PERL Program
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 170
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
31 <220> FEATURE:
32 <221> NAME/KEY: misc_feature
33 <223> OTHER INFORMATION: Incyte ID No: 723593CD1
35 <400> SEQUENCE: 1
36 Met Ser His Arg Thr Ser Ser Thr Phe Arg Ala Glu Arg Ser Phe
37 1 5 10 15
38 His Ser Ser Ser Ser Ser Ser Ser Ser Thr Ser Ser Ser Ala
39 20 25 30
40 Ser Arg Ala Leu Pro Ala Gln Asp Pro Pro Met Glu Lys Ala Leu
41 35 40 45
42 Ser Met Phe Ser Asp Asp Phe Gly Ser Phe Met Arg Pro His Ser
43 50 55 60
44 Glu Pro Leu Ala Phe Pro Ala Arg Pro Gly Gly Ala Gly Asn Ile
45 65 70 75
46 Lys Thr Leu Gly Asp Ala Tyr Glu Phe Ala Val Asp Val Arg Asp
47 80 85 90
48 Phe Ser Pro Glu Asp Ile Ile Val Thr Thr Ser Asn Asn His Ile
49 95 100 105
50 Glu Val Arg Ala Glu Lys Leu Ala Ala Asp Gly Thr Val Met Asn
51 110 115 120
52 Thr Phe Ala His Lys Cys Gln Leu Pro Glu Asp Val Asp Pro Thr
53 125 130 135
54 Ser Val Thr Ser Ala Leu Arg Glu Asp Gly Ser Leu Thr Ile Arg
55 140 145 150

RAW SEQUENCE LISTING DATE: 03/01/2002
PATENT APPLICATION: US/10/049,742 TIME: 14:53:09
Input Set : A:\ippf0728usn.app.txt
Output Set: N:\CRF3\03012002\J049742.raw

56 Ala Arg Arg His Pro His Thr Glu His Val Gln Gln Thr Phe Arg
57 155 160 165
58 Thr Glu Ile Lys Ile
59 170
60 <210> SEQ ID NO: 2
61 <211> LENGTH: 304
62 <212> TYPE: PRT
63 <213> ORGANISM: Homo sapiens
65 <220> FEATURE:
66 <221> NAME/KEY: misc_feature
67 <223> OTHER INFORMATION: Incyte ID No: 1708350CD1
69 <400> SEQUENCE: 2
70 Met Ala Val Thr Lys Glu Leu Leu Gln Met Asp Leu Tyr Ala Leu
71 1 5 10 15
72 Leu Gly Ile Glu Glu Lys Ala Ala Asp Lys Glu Val Lys Lys Ala
73 20 25 30
74 Tyr Arg Gln Lys Ala Leu Ser Cys His Pro Asp Lys Asn Pro Asp
75 35 40 45
76 Asn Pro Arg Ala Ala Glu Leu Phe His Gln Leu Ser Gln Ala Leu
77 50 55 60
78 Glu Val Leu Thr Asp Ala Ala Ala Arg Ala Ala Tyr Asp Lys Val
79 65 70 75
80 Arg Lys Ala Lys Lys Gln Ala Ala Glu Arg Thr Gln Lys Leu Asp
81 80 85 90
82 Glu Lys Arg Lys Lys Val Lys Leu Asp Leu Glu Ala Arg Glu Arg
83 95 100 105
84 Gln Ala Gln Ala Gln Glu Ser Glu Glu Glu Glu Ser Arg Ser
85 110 115 120
86 Thr Arg Thr Leu Glu Gln Glu Ile Glu Arg Leu Arg Glu Glu Gly
87 125 130 135
88 Ser Arg Gln Leu Glu Glu Gln Arg Leu Ile Arg Glu Gln Ile
89 140 145 150
90 Arg Gln Glu Arg Asp Gln Arg Leu Arg Gly Lys Ala Glu Asn Thr
91 155 160 165
92 Glu Gly Gln Gly Thr Pro Lys Leu Lys Leu Lys Trp Lys Cys Lys
93 170 175 180
94 Lys Glu Asp Glu Ser Lys Gly Gly Tyr Ser Lys Asp Val Leu Leu
95 185 190 195
96 Arg Leu Leu Gln Lys Tyr Gly Glu Val Leu Asn Leu Val Leu Ser
97 200 205 210
98 Ser Lys Lys Pro Gly Thr Ala Val Val Glu Phe Ala Thr Val Lys
99 215 220 225
100 Ala Ala Glu Leu Ala Val Gln Asn Glu Val Gly Leu Val Asp Asn
101 230 235 240
102 Pro Leu Lys Ile Ser Trp Leu Glu Gly Gln Pro Gln Asp Ala Val
103 245 250 255
104 Gly Arg Ser His Ser Gly Leu Ser Lys Gly Ser Val Leu Ser Glu
105 260 265 270
106 Arg Asp Tyr Glu Ser Leu Val Met Met Arg Met Arg Gln Ala Ala

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/049,742

DATE: 03/01/2002
TIME: 14:53:09

Input Set : A:\ippf0728usn.app.txt
Output Set: N:\CRF3\03012002\J049742.raw

107 275 280 285
108 Glu Arg Gln Gln Leu Ile Ala Arg Met Gln Gln Glu Asp Gln Glu
109 290 295 300
110 Gly Pro Pro Thr
112 <210> SEQ ID NO: 3
113 <211> LENGTH: 483
114 <212> TYPE: PRT
115 <213> ORGANISM: Homo sapiens
117 <220> FEATURE:
118 <221> NAME/KEY: misc_feature
119 <223> OTHER INFORMATION: Incyte ID No: 1742550CD1
121 <400> SEQUENCE: 3
122 Met Ala Lys Asp Ala Ser Ser Ala Asp Ile Arg Lys Ala Tyr Arg
123 1 5 10 15
124 Lys Leu Ser Leu Thr Leu His Pro Asp Lys Asn Lys Asp Glu Asn
125 20 25 30
126 Ala Glu Thr Gln Phe Arg Gln Leu Val Ala Ile Tyr Glu Val Leu
127 35 40 45
128 Lys Asp Asp Glu Arg Arg Gln Arg Tyr Asp Asp Ile Leu Ile Asn
129 50 55 60
130 Gly Leu Pro Asp Trp Arg Gln Pro Val Phe Tyr Tyr Arg Arg Val
131 65 70 75
132 Arg Lys Met Ser Asn Ala Glu Leu Ala Leu Leu Leu Phe Ile Ile
133 80 85 90
134 Leu Thr Val Gly His Tyr Ala Val Val Trp Ser Ile Tyr Leu Glu
135 95 100 105
136 Lys Gln Leu Asp Glu Leu Leu Ser Arg Lys Lys Arg Glu Lys Lys
137 110 115 120
138 Lys Lys Thr Gly Ser Lys Ser Val Asp Val Ser Lys Leu Gly Ala
139 125 130 135
140 Ser Glu Lys Asn Glu Arg Leu Leu Met Lys Pro Gln Trp His Asp
141 140 145 150
142 Leu Leu Pro Cys Lys Leu Gly Ile Trp Phe Cys Leu Thr Leu Lys
143 155 160 165
144 Ala Leu Pro His Leu Ile Gln Asp Ala Gly Gln Phe Tyr Ala Lys
145 170 175 180
146 Tyr Lys Glu Thr Arg Leu Lys Glu Lys Glu Asp Ala Leu Thr Arg
147 185 190 195
148 Thr Glu Leu Glu Thr Leu Gln Lys Gln Lys Lys Val Lys Lys Pro
149 200 205 210
150 Lys Pro Glu Phe Pro Val Tyr Thr Pro Leu Glu Thr Thr Tyr Ile
151 215 220 225
152 Gln Ser Tyr Asp His Gly Thr Ser Ile Glu Glu Ile Glu Glu Gln
153 230 235 240
154 Met Asp Asp Trp Leu Glu Asn Arg Asn Arg Thr Gln Lys Lys Gln
155 245 250 255
156 Ala Pro Glu Trp Thr Glu Glu Asp Leu Ser Gln Leu Thr Arg Ser
157 260 265 270
158 Met Val Lys Phe Pro Gly Gly Thr Pro Gly Arg Trp Glu Lys Ile

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/049,742

DATE: 03/01/2002

TIME: 14:53:09

Input Set : A:\ippf0728usn.app.txt
Output Set: N:\CRF3\03012002\J049742.raw

159 275 280 285
160 Ala His Glu Leu Gly Arg Ser Val Thr Asp Val Thr Thr Lys Ala
161 290 295 300
162 Lys Gln Leu Lys Asp Ser Val Thr Cys Ser Pro Gly Met Val Arg
163 305 310 315
164 Leu Ser Glu Leu Lys Ser Thr Val Gln Asn Ser Arg Pro Ile Lys
165 320 325 330
166 Thr Ala Thr Thr Leu Pro Asp Asp Met Ile Thr Gln Arg Glu Asp
167 335 340 345
168 Ala Glu Gly Val Ala Ala Glu Glu Gln Glu Gly Asp Ser Gly
169 350 355 360
170 Glu Gln Glu Thr Gly Ala Thr Asp Ala Arg Pro Arg Arg Arg Lys
171 365 370 375
172 Pro Ala Arg Leu Leu Glu Ala Thr Ala Lys Pro Glu Pro Glu Glu
173 380 385 390
174 Lys Ser Arg Ala Lys Arg Gln Lys Asp Phe Asp Ile Ala Glu Gln
175 395 400 405
176 Asn Glu Ser Ser Asp Glu Glu Ser Leu Arg Lys Glu Arg Ala Arg
177 410 415 420
178 Ser Ala Glu Glu Pro Trp Thr Gln Asn Gln Gln Lys Leu Leu Glu
179 425 430 435
180 Leu Ala Leu Gln Gln Tyr Pro Arg Gly Ser Ser Asp Arg Trp Asp
181 440 445 450
182 Lys Ile Ala Arg Cys Val Pro Ser Lys Ser Lys Glu Asp Cys Ile
183 455 460 465
184 Ala Arg Tyr Lys Leu Leu Val Glu Leu Val Gln Lys Lys Lys Gln
185 470 475 480
186 Ala Lys Ser
188 <210> SEQ ID NO: 4
189 <211> LENGTH: 226
190 <212> TYPE: PRT
191 <213> ORGANISM: Homo sapiens
193 <220> FEATURE:
194 <221> NAME/KEY: misc_feature
195 <223> OTHER INFORMATION: Incyte ID No: 1919301CD1
197 <400> SEQUENCE: 4
198 Met Ala Ala Met Arg Trp Arg Trp Trp Gln Arg Leu Leu Pro Trp
199 1 5 10 15
200 Arg Leu Leu Gln Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser
201 20 25 30
202 Leu Gly Leu Gly Ala Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr
203 35 40 45
204 Ser Arg Thr Ala Leu Tyr Asp Leu Leu Gly Val Pro Ser Thr Ala
205 50 55 60
206 Thr Gln Ala Gln Ile Lys Ala Ala Tyr Tyr Arg Gln Cys Phe Leu
207 65 70 75
208 Tyr His Pro Asp Arg Asn Ser Gly Ser Ala Glu Ala Ala Glu Arg
209 80 85 90
210 Phe Thr Arg Ile Ser Gln Ala Tyr Val Val Leu Gly Ser Ala Thr

RAW SEQUENCE LISTING DATE: 03/01/2002
PATENT APPLICATION: US/10/049,742 TIME: 14:53:09

Input Set : A:\ippf0728usn.app.txt
Output Set: N:\CRF3\03012002\J049742.raw

211 95 100 105
212 Leu Arg Arg Lys Tyr Asp Arg Gly Leu Leu Ser Asp Glu Asp Leu
213 110 115 120
214 Arg Gly Pro Gly Val Arg Pro Ser Arg Thr Pro Ala Pro Asp Pro
215 125 130 135
216 Gly Ser Pro Arg Thr Pro Pro Pro Thr Ser Arg Thr His Asp Gly
217 140 145 150
218 Ser Arg Ala Ser Pro Gly Ala Asn Arg Thr Met Phe Asn Phe Asp
219 155 160 165
220 Ala Phe Tyr Gln Ala His Tyr Gly Glu Gln Leu Glu Arg Glu Arg
221 170 175 180
222 Arg Leu Arg Ala Arg Arg Glu Ala Leu Arg Lys Arg Gln Glu Tyr
223 185 190 195
224 Arg Ser Met Lys Gly Leu Arg Trp Glu Asp Thr Arg Asp Thr Ala
225 200 205 210
226 Ala Ile Phe Leu Ile Phe Ser Ile Phe Ile Ile Gly Phe Tyr
227 215 220 225
228 Ile
230 <210> SEQ ID NO: 5
231 <211> LENGTH: 112
232 <212> TYPE: PRT
233 <213> ORGANISM: Homo sapiens
235 <220> FEATURE:
236 <221> NAME/KEY: misc_feature
237 <223> OTHER INFORMATION: Incyte ID No: 2012055CD1
239 <400> SEQUENCE: 5
240 Met Met Ala Val Glu Gln Met Pro Lys Lys Asp Trp Tyr Ser Ile
241 1 5 10 15
242 Leu Gly Ala Asp Pro Ser Ala Asn Ile Ser Asp Leu Lys Gln Lys
243 20 25 30
244 Tyr Gln Lys Leu Ile Leu Met Tyr His Pro Asp Lys Gln Ser Thr
245 35 40 45
246 Asp Val Pro Ala Gly Thr Val Glu Glu Cys Val Gln Lys Phe Ile
247 50 55 60
248 Glu Ile Asp Gln Ala Trp Lys Ile Leu Gly Asn Glu Glu Thr Lys
249 65 70 75
250 Arg Glu Tyr Asp Leu Gln Arg Cys Glu Asp Asp Leu Arg Asn Val
251 80 85 90
252 Gly Pro Val Asp Ala Gln Val Tyr Leu Glu Glu Met Ser Trp Asn
253 95 100 105
254 Glu Val Thr Ser Gln Arg Gln
255 110
256 <210> SEQ ID NO: 6
257 <211> LENGTH: 358
258 <212> TYPE: PRT
259 <213> ORGANISM: Homo sapiens
261 <220> FEATURE:
262 <221> NAME/KEY: misc_feature
263 <223> OTHER INFORMATION: Incyte ID No: 2238062CD1

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/049,742

DATE: 03/01/2002

TIME: 14:53:10

Input Set : A:\ippf0728usn.app.txt

Output Set: N:\CRF3\03012002\J049742.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application Number
L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:21 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD